

As modified by Francis J. Smith

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. _____

(maximum 12 characters)

First Named Inventor Francis J. Smith

21906 U.S. PTO
10/603798
06/24/03

Title: **Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation
With Time and Temperature Compensation for Low Power Applications**

Express Mail Label No. _____

ADDRESS TO: **Commissioner for Patents
P.O Box 1450
Alexandria, Va, 22313-1450**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. X **Fee Transmittal Form (e.g., PTO/SB/17)**
(Submit an original and a duplicate for fee processing)
2. X **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3. X **Specification (Total Pages 31)**
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table,
or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. X **Drawings(s) (35 USC 113) (Total Sheets 5)**
5. X **Oath or Declaration (Total Pages 4)**
 - a. Newly Executed (Original or Copy)
 - b. Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 18 completed)
 - i. **DELETIONS OF INVENTOR(S)** Signed statement attached deleting
inventor(s) named in the prior application, see 37 CFR 1.63(d)(2)
and 1.33(b).
 - c. X Unsigned.
6. **Application Data Sheet. (37 CFR 1.76)**
7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ **Assignment Papers (cover sheet & documents(s))**
10. ☐ a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
- ☐ b. Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ a. Information Disclosure Statement (IDS)/PTO-1449
- ☐ b. Copies of IDS Citations
13. ☐ **Preliminary Amendment**
14. ☒ **Return Receipt Postcard (MPEP 503) (Should be specifically itemized)**
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ **Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.**
- 17A. ☐ Other: _____

17B. ☐ Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18A. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet Under 37 C.F.R. 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)
 Of Prior Application No.: _____ Examiner _____ Group Art Unit _____
 (which is a ☐ continuation/ ☐ divisional/ ☐ CIP of prior application no. _____)
 which is a ☐ continuation/ ☐ divisional/ ☐ CIP of prior application no. _____ (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.
 For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18B. Statement under 37 CFR 3.73(b) for continuing application:
 The undersigned states that _____ (name of assignee) is the assignee of the entire right, title, and interest in the accompanying patent application by virtue of an assignment recorded in the Patent and Trademark Office at Reel. No. _____ Frame No. _____ (or a copy of which is attached).

19. **Correspondence Address**
 _____ Customer Number or Bar Code Label _____
 or _____ (Insert Customer No. or Attach Bar Code Label here)

☒ Correspondence Address Below
NAME Francis J. Smith
Sole Inventor
ADDRESS 877 Turino Street
CITY Livermore **STATE** California **ZIP CODE** 94551
Country U.S.A. **TELEPHONE** (925)-373-1963 **FAX** (925)-292-9041

Name (PRINT/TYPED): Francis J. Smith **Registration No.:** _____
Signature:  **Date:** Jun 16, 2003
23

06/24/03

13049 U.S. PTO

PTO/SB/17(09/00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL FOR FY 2003**TOTAL AMOUNT OF PAYMENT (\$) \$ 555****Complete if Known:**

Application No. _____

Filing Date June 23, 2003First Named Inventor Francis J. Smith

Group Art Unit _____

Examiner Name _____

Attorney Docket No. _____

METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number _____

Deposit Account Name _____

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

- ☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed: ☒ Check
☐ Money Order
☐ Other

FEE CALCULATION**1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
101	740	201	375	Utility application filing fee	375
106	330	206	165	Design application filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional application filing fee	

SUBTOTAL (1) \$ 375.00**2. EXTRA CLAIM FEES**

		Extra Claims		Fee from below		Fee Paid	
Total Claims	40	- 20** =	20	X	9	=	180
Independent Claims	2	- 3** =	1	X	42	=	0
Multiple Dependent						=	

****Or number previously paid, if greater; For Reissues, see below.**

Large Entity		Small Entity		Fee Description
Code	Fee (\$)	Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 55521906 U.S. PTO
10/603798
06/24/03

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>Code</u>	<u>Fee (\$)</u>	<u>Code</u>	<u>Fee (\$)</u>		
105	130	205	65	Surcharge - late filing fee or oath	_____
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	_____
139	130	139	130	Non-English specification	_____
147	2,520	147	2,520	For filing a request for ex parte reexamination	_____
099	8,800	099	8,800	Request for inter parties reexamination	_____
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	_____
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	_____
115	110	215	55	Extension for reply within first month	_____
116	400	216	200	Extension for reply within second month	_____
117	920	217	460	Extension for reply within third month	_____
118	1,440	218	720	Extension for reply within fourth month	_____
128	1,960	228	980	Extension for reply within fifth month	_____
119	320	219	160	Notice of Appeal	_____
120	320	220	160	Filing a brief in support of an appeal	_____
121	280	221	140	Request for oral hearing	_____
138	1,510	138	1,510	Petition to institute a public use proceeding	_____
140	110	240	55	Petition to revive - unavoidable	_____
141	1,280	241	640	Petition to revive - unintentional	_____
142	1,280	242	640	Utility issue fee (or reissue)	_____
143	460	243	230	Design issue fee	_____
144	620	244	310	Plant issue fee	_____
122	130	122	130	Petitions to the Commissioner	_____
123	50	123	50	Processing fee under 37 CFR 1.17(q)	_____
126	180	126	180	Submission of Information Disclosure Stmt	_____
581	40	581	40	Recording each patent assignment per property (times number of properties)	_____
146	740	246	370	For filing a submission after final rejection (see 37 CFR 1.129(a))	_____
148	110	248	55	Statutory Disclaimer	_____
149	740	249	370	For each additional invention to be examined (see 37 CFR 1.129(b))	_____
179	740	279	370	Request for Continued Examination (RCE)	_____
169	900	169	900	Request for expedited examination of a design application	_____
195	300	195	300	Publication fee for early, voluntary, or normal pub.	_____
196	300	196	300	Publication fee for republication	_____
194	130	194	130	Request for voluntary publication or republication	_____
098	130	098	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	_____
091	1,280	091	1,280	Acceptance of unintentionally delayed claim for priority	_____
SUBTOTAL (3) \$0					_____

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:Typed or Printed Name: Francis J. SmithSignature: Date: June 23, 2003

Reg. Number: _____

Telephone Number: 925-373-1963**EXPRESS MAIL CERTIFICATE OF MAILING**

"Express Mail" mailing label number: _____

Date of Deposit: June 16, 2003

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

FRANCIS J. SMITH

Name of Person Mailing Paper or Fee

June 23, 2003

Patent Application
Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation
With Time and Temperature Compensation for Low Power Applications

To: Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Va 22313-1450

From: Francis J. Smith
877 Turino Street
Livermore, California 94550
e-mail: fjsmith@attbi.com
925-373-1963 Home
925-784-5261 Cell
925-292-9041 Fax

Subject: Patent Application for Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation With Time and Temperature Compensation for Low Power Applications

Subject: Patent Application

Attachments: 1. Filing Fee of \$555.00, check
2. Patent specification and claims
3. Fee Transmittal for FY 2003 PTO/SB/17(09/00)
4. Utility Patent Application Transmittal PTO/SB/05(03-01)
5. Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i) PTO/SB/35(03-01)
6. Return Receipt Postcard
7. Declaration 37 CFR 1.76

Dear Sir or Madam,

Please accept this application for a utility patent for the:
Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation
With Time and Temperature Compensation for Low Power Applications

I am the sole individual filing for this patent and I have no affiliation with any company, private organization or government organization. I am filing as a small entity.

Inventor's Names: Francis J. Smith

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Proprietary and the Sole Property of
Francis J. Smith
Copyright
06/16/03

June 23, 2003

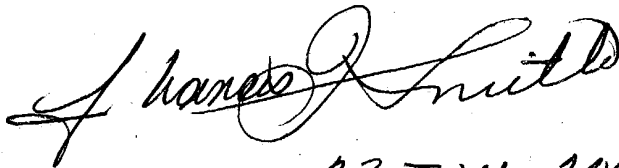
Patent Application
Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation
With Time and Temperature Compensation for Low Power Applications

Title of Invention: Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation
With Time and Temperature Compensation for Low Power Applications

Attorney or Agent: Francis J. Smith will be the point of contact for this application

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925-373-1963 Home
925-784-5261 Cell
925-292-9041 Fax

No Government Agency has any property interest in this invention


23 JUN 2003

Proprietary and the Sole Property of
Francis J. Smith
Copyright
06/16/03

REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)First Named Inventor Francis J. SmithTitle Non-Linear Adaptive AM/AM and AM/PM Pre-Distortion Compensation With Time and Temperature Compensation for Low Power Applications

Docket No. _____

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

June 23, 2003

Date


SignatureFrancis J. Smith

Typed or Printed Name

Registration No.

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months after the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Send to Commissioner for Patents, P.O.Box 1450, Alexandria, Va 22313-1450